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APPLICATION NO. FILING DATE 09/680,401 10/05/2000		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
		Seinosuke Mizuno	198224USOX		
22850	7590 04/11/2002				
OBLON SPIVAK MCCLELLAND MAIER & NEUSTADT PC FOURTH FLOOR 1755 JEFFERSON DAVIS HIGHWAY			EXAMINER		
			NGUYEN, KIMBERLY T		
ARLINGTON, VA 22202			ART UNIT	PAPER NUMBER	
			1774	, 5	
			DATE MAILED: 04/11/2002	:	

Please find below and/or attached an Office communication concerning this application or proceeding.

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فين	-		Application	on No.	Applicant(s)			
	•	_	09/680,40)1	MIZUNO ET AL.			
	Offic	Action Summary	Examiner		Art Unit			
			Kimberly		1774			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Peri df r Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status 1)□	Resnonsi	ive to communication(s) file	ed on					
2a)□	•		b)⊠ This action is	non-final				
3)□	·—							
Dispositi	on of Clai	ms	·					
4)🖂	4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-8</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)[Claim(s) _	are subject to restricti	ion and/or election r	equirement.				
Application	on Papers	;						
9) 🗌 🗆	The specifi	cation is objected to by the	Examiner.					
10)[] 7	The drawin	g(s) filed on is/are: a	a)□ accepted or b)□	objected to by the Exa	miner.			
_	• •	may not request that any obje						
11) 🗌 🛭		ed drawing correction filed			oved by the Examiner.			
If approved, corrected drawings are required in reply to this Office action.								
12) The oath or declaration is objected to by the Examiner.								
-		.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a)⊠ All b)□ Some * c)□ None of:								
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority documents have been received in Application No							
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).								
•		anslation of the foreign lang gment is made of a claim fo		•				
Attachment		-	. ,					
2) Notice	e of Draftsper	es Cited (PTO-892) son's Patent Drawing Review (PT sure Statement(s) (PTO-1449) Pap			y (PTO-413) Paper No(s) Patent Application (PTO-152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 1 and 6 are unclear as to the process included in the product claim. It is not understood why "coated and heated on the metal wire," "formed around an outer periphery," and "being bonded by vulcanization" are included in these claims. Additionally, these method steps seem to be part of a process, although no process is claimed.

In claim 4, the components of the metal wire are not listed in proper Markush group format.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4 and 6-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Takahashi et al., U.S. Pat. No. 4,891,267.

Takahashi shows steel fibers (metal wire) coated with an adhesive layer to reinforce rubber materials (column 1, lines 12-23 and column 10, lines 7-14). Takahashi shows that the

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adhesive layer comprises a halogenated rubber latex compound (claims 13-14). Takahashi shows that the adhesive contains chloroprene rubber latex, vinylpyridine-styrene-butadiene terpolymer latex (column 8, lines 53-59), and sulfur (column 12, lines 53-62). Takahashi further shows that the steel fibers coated with tan adhesive layer is surrounded by a rubber material (elastomeric extrusion) of rubber such as rubber used in tires (elastomeric molding) for its high strength, durability, and stability (column 1, lines 12-23). Although the material in Takahashi is not said to be a shrinkage control material, it would inherently have this feature as the material has the same components and is used in the same manner.

Claims 1-2 and 4-7 are rejected under 35 U.S.C. 102(b) as being anticipated by Wright, U.S. Pat. No. 3,951,723.

Wright shows steel and brass-plated steel fibers and cords for use in reinforcing rubber products (elastomeric molding) wherein the brass-plated steel fibers have an adhesive layer coating (column 10, lines 10-62). Wright further shows that the adhesive comprises a haloolefin-based adhesive (column 1, lines 52-68). Although the material in Wright is not said to be a shrinkage control material, it would inherently have this feature as the material has the same components and is used in the same manner.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimberly T. Nguyen whose telephone number is (703) 308-8176. The examiner can normally be reached on Monday to Friday, except on every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cynthia H. Kelly can be reached on (703) 308-0449. The fax phone numbers for the Art Unit: 1774

organization where this application or proceeding is assigned are (703) 872-9310 for regular communications and (703) 872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

Kimberly T. Nguyen Examiner April 8, 2002 CYNTHIA H. KELLY
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1700

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